

secondary winding being wrapped plural times around said thickness of said perimeter without crossing said primary windings, said secondary winding being comprised of wire that is a plurality of times thinner than said primary windings, said secondary winding being wrapped around said core a larger number of times than the primary windings combined, wherein the primary coils are wired symmetrically to induce identical currents, and wherein the primary and secondary coils are perpendicular to each other as arranged on the core.

13. (Cancelled)

14. (Previously Presented) The coupler of claim 13 wherein the number of turns in the secondary coil is at least five times the number of turns in the primary coils.

15. (Previously Added) The coupler of claim 14 wherein the primary coils are thick enough to carry power and data, and wherein the secondary coil is not thick enough to carry the data.

16. (Cancelled)